

## AMENDMENTS TO THE CLAIMS

Claims 1-27 (canceled)

28. (new): A method of producing a cap (2) from an existing plastics component (28), comprising a top panel (4) surrounded by a skirt (6), and a plastics coated aluminium gas barrier foil (30), the method comprising the steps of placing the barrier foil (30) adjacent the top panel (4) and induction heat welding the foil to the panel (4) by melting the component indirectly by contact with the heated foil.

29. (new): A reclosable plastics cap (2) having a top panel (4), a skirt (6), a gas barrier (30) to inhibit gas flow through the cap (2), and a closed plug (92) substantially filling a void inside the cap to define a valve (20) adapted to fit inside and seal against an inner wall of a neck of a container to which the cap is fitted, characterised in that the cap can be resealed and in that the gas barrier is provided by means of a plastics coated aluminium foil (30) induction heat sealed to plastics material of the cap.

30. (new): A reclosable plastics cap (2) having a top panel (4) and a skirt (6), wherein a plastics coated aluminium foil liner (30) has a peripheral edge (32) that is embedded and fused into an external surface (70) of the skirt (6) or top panel (4) of the cap (2).

31. (new): A cap (2) as claimed in claim 30, wherein an opening (66) is formed in the top panel (4).

32. (new): A cap (2) as claimed in claim 30, wherein a valve (20), adapted to fit inside and seal against an inner wall of a neck of a container to which the cap is fitted, depends from the top panel (4).

33. (new): A cap (2) as claimed in claim 32, wherein the valve (20) is provided on a plate (62), which traps the foil liner (30) to an internal surface of the top panel (4).

34. (new): A cap (2) as claimed in claim 33, wherein the plate (62) has an opening (68) which cooperates with a corresponding opening (66) in the top panel to enable the foil to be pierced to access the contents of a container closed by the cap in use.

35. (new): A cap (2) as claimed in claim 29, wherein the foil liner (30) forms or covers an internal or external end face of the plug (92).

36. (new): A cap (2) as claimed in claim 29, wherein an interior of the plug (92) is defined by a recess (90) lined with the foil liner (30).

37. (new): A cap (2) as claimed in claim 29, wherein an interior of the plug (92) is lined with EVOH or other similar gas barrier plastics material.

38. (new): A cap (2) as claimed in claim 29, wherein the plastics coated aluminium foil (30) extends across the entire width of the valve (20).

39. (new): A cap (2) as claimed in claim 38, wherein the aluminium foil also extends up or down the wall of the valve (20).

40. (new): An assembly of a cap as claimed in claim 29 and a glass, plastics, steel or aluminium bottle, jar or any other container.

41. (new): An assembly of a cap as claimed in claim 29 and a container made of paperboard or composite material.

42. (new): An assembly of a cap as claimed as claimed in claim 29 and a thermoformed container.

43. (new): A method of producing a cap (2) from a plastics component (28) comprising a top panel (4) surrounded by a skirt (6), a receiving recess (48) for a barrier foil, and a sacrificial wall (50), the method comprising the steps of placing a barrier foil (30) into the recess (48) and

heating the wall (50) to melt the plastic material of the wall in order to embed an edge (32) of the foil (30) into the cap (2).

44. (new): A method as claimed in claim 43, wherein the heating step comprises induction heating the foil (30) to melt the wall (50).

45. (new): A method as claimed in claim 43, wherein the foil (30) is oversized and when placed into the recess (48) has its peripheral edge (32) pressed against an inner surface of the recess (48).

46. (new): A plastics component (28) for use in manufacturing a cap (2) by method as claimed in claim 1 or 16, wherein an annular wall (20,50) extends from the top panel (4) in order to define a recess (48) to receive the foil liner (30) wherein the wall (20, 50) has an intermediate, reduced cross-section portion (56) in order to enable a lower part (54) of the wall to be folded back towards the top panel in order to retain the peripheral edge (32) of the foil liner during production.

47. (new): A cap (2) as claimed in claim 32, wherein the plastics coated aluminium foil (30) extends across the entire width of the valve (20).

48. (new): A cap (2) as claimed in claim 47, wherein the aluminium foil also extends up or down the wall of the valve (20).

49. (new): An assembly of a cap as claimed in claim 30 and a glass, plastics, steel or aluminium bottle, jar or any other container.

50. (new): An assembly of a cap as claimed in claim 30 and a container made of paperboard or composite material.

51. (new): An assembly of a cap as claimed as claimed in claim 30 and a thermoformed container.

52. (new): A method as claimed in claim 44, wherein the foil (30) is oversized and when placed into the recess (48) has its peripheral edge (32) pressed against an inner surface of the recess (48).